

| L Number | Hits | Search Text   | DB  | Time stamp          |
|----------|------|---|---|---------------------|
| 1        | 1    | 20030001084.pn.   | USPAT;<br>US-PGPUB                                      | 2004/10/28<br>16:34 |
| 2        | 1    | ((ion adj1 trap\$2) with quadrupole) and (radius adj3 mm) and (length adj3 mm) and (ring near3 (end adj1 cap\$2))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:04 |
| 3        | 6    | ((ion adj1 trap\$2) with quadrupole) and (radius adj3 mm) and (length adj3 mm)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:47 |
| 4        | 5    | ((ion adj1 trap\$2) with quadrupole) and (radius adj3 mm) and (length adj3 mm) not (((ion adj1 trap\$2) with quadrupole) and (radius adj3 mm) and (length adj3 mm) and (ring near3 (end adj1 cap\$2)))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:04 |
| 5        | 0    | (ion adj1 trap\$2) and (ring with (radius adj3 mm)) and (length adj3 mm) and (end adj1 cap\$2)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:06 |
| 6        | 0    | (ion adj1 trap\$2) and (ring with (radius adj3 mm)) and (length adj3 mm)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:07 |
| 7        | 10   | (ion adj1 trap\$2) and (radius adj3 mm) and (length adj3 mm)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:07 |
| 8        | 5    | ((ion adj1 trap\$2) and (radius adj3 mm) and (length adj3 mm)) not (((ion adj1 trap\$2) with quadrupole) and (radius adj3 mm) and (length adj3 mm)) not (((ion adj1 trap\$2) with quadrupole) and (radius adj3 mm) and (length adj3 mm) and (ring near3 (end adj1 cap\$2))) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:07 |
| 9        | 194  | ((ion adj1 trap\$2) with quadrupole) and (RF with scan\$5)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:45 |
| 10       | 3    | ((ion adj1 trap\$2) with quadrupole) and (RF with scan\$5)) and (dimension\$2 near4 mm)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:13 |
| 11       | 35   | ((ion adj1 trap\$2) with quadrupole) and (RF with scan\$5)) and ((diameter or radius) near4 mm)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:47 |
| 12       | 16   | ion adj1 trap adj1 array\$2   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:16 |
| 13       | 0    | (ion adj1 trap adj1 array\$2) and (dimension\$2 near3 mm)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:17 |
| 14       | 2    | (ion adj1 trap adj1 array\$2) and (radius near3 mm)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:42 |

|    |      |  |   |                     |
|----|------|--|---|---------------------|
| 15 | 3079 | (250/282,286-288,291,292).ccls.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:45 |
| 16 | 170  | ((250/282,286-288,291,292).ccls.) and<br>((ion adj1 trap\$2) with quadrupole) and<br>(RF with scan\$5)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:46 |
| 17 | 32   | ((250/282,286-288,291,292).ccls.) and<br>((ion adj1 trap\$2) with quadrupole) and<br>(RF with scan\$5)) and ((diameter or<br>radius) near4 mm)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:47 |
| 18 | 3    | ((250/282,286-288,291,292).ccls.) and<br>((ion adj1 trap\$2) with quadrupole) and<br>(RF with scan\$5)) and ((diameter or<br>radius) near4 mm)) and (radius adj3 mm)<br>and (length adj3 mm) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/28<br>17:47 |

|    | Type | Hits | Search Text   | DBs   |
|----|------|------|---|---|
| 1  | BRS  | 0    | (ion adj1 trap adj1 array\$2)<br>and ((two adj1 dimension\$3)<br>near3 array\$%2)   | USPAT; US-PGPUB;<br>EPO; JPO;<br>DERWENT; IBM_TDB |
| 2  | BRS  | 16   | ion adj1 trap adj1 array\$2   | USPAT; US-PGPUB;<br>EPO; JPO;<br>DERWENT; IBM_TDB |
| 3  | BRS  | 2    | (ion adj1 trap adj1 array\$2)<br>and insulator  | USPAT; US-PGPUB;<br>EPO; JPO;<br>DERWENT; IBM_TDB |
| 4  | BRS  | 0    | 6762406.pn. and insulator   | USPAT; US-PGPUB;<br>EPO; JPO;<br>DERWENT; IBM_TDB |
| 5  | BRS  | 0    | ((ion adj1 trap\$2) with<br>quadrupole) and ((end adj1<br>cap) with ring with<br>insulator)   | USPAT; US-PGPUB;<br>EPO; JPO;<br>DERWENT; IBM_TDB |
| 6  | BRS  | 1192 | ((ion adj1 trap\$2) with<br>quadrupole)   | USPAT; US-PGPUB;<br>EPO; JPO;<br>DERWENT; IBM_TDB |
| 7  | BRS  | 0    | ((ion adj1 trap\$2) with<br>quadrupole)) and ((end adj1<br>cap) with ring with insulator)   | USPAT; US-PGPUB;<br>EPO; JPO;<br>DERWENT; IBM_TDB |
| 8  | BRS  | 10   | ((ion adj1 trap\$2) with<br>quadrupole)) and ((end adj1<br>cap) with insulat\$5)  | USPAT; US-PGPUB;<br>EPO; JPO;<br>DERWENT; IBM_TDB |
| 9  | BRS  | 6    | ((ion adj1 trap\$2) with<br>quadrupole)) and ((end adj1<br>cap) with ring with insulat\$5)  | USPAT; US-PGPUB;<br>EPO; JPO;<br>DERWENT; IBM_TDB |
| 10 | BRS  | 26   | (ion adj1 trap adj1 array\$2)<br>or (((ion adj1 trap\$2) with<br>quadrupole)) and ((end adj1<br>cap) with insulat\$5))  | USPAT; US-PGPUB;<br>EPO; JPO;<br>DERWENT; IBM_TDB |
| 11 | BRS  | 10   | ((ion adj1 trap adj1 array\$2)<br>or (((ion adj1 trap\$2) with<br>quadrupole)) and ((end adj1<br>cap) with insulat\$5))) and<br>(TOF or (time adj3 flight))   | USPAT; US-PGPUB;<br>EPO; JPO;<br>DERWENT; IBM_TDB |
| 12 | BRS  | 1    | ((ion adj1 trap adj1 array\$2)<br>or (((ion adj1 trap\$2) with<br>quadrupole)) and ((end adj1<br>cap) with insulat\$5))) and<br>(TOF or (time adj3 flight)))<br>and (((ion adj1 trap\$2) with<br>quadrupole)) and ((end adj1<br>cap) with ring with<br>insulat\$5)) | USPAT; US-PGPUB;<br>EPO; JPO;<br>DERWENT; IBM_TDB |
| 13 | BRS  | 0    | ((ion adj1 trap adj1 array\$2)<br>or (((ion adj1 trap\$2) with<br>quadrupole)) and ((end adj1<br>cap) with insulat\$5))) and<br>(TOF or (time adj3 flight)))<br>and ((ion adj1 trap adj1<br>array\$2) and insulator)  | USPAT; US-PGPUB;<br>EPO; JPO;<br>DERWENT; IBM_TDB |

|    | Time Stamp          | Comments | Error Definition | Errors |
|----|---------------------|----------|------------------|--------|
| 1  | 2004/10/28<br>10:22 |          |                  | 0      |
| 2  | 2004/10/28<br>11:02 |          |                  | 0      |
| 3  | 2004/10/28<br>11:00 |          |                  | 0      |
| 4  | 2004/10/28<br>11:00 |          |                  | 0      |
| 5  | 2004/10/28<br>11:03 |          |                  | 0      |
| 6  | 2004/10/28<br>11:03 |          |                  | 0      |
| 7  | 2004/10/28<br>11:04 |          |                  | 0      |
| 8  | 2004/10/28<br>11:04 |          |                  | 0      |
| 9  | 2004/10/28<br>11:37 |          |                  | 0      |
| 10 | 2004/10/28<br>11:37 |          |                  | 0      |
| 11 | 2004/10/28<br>11:41 |          |                  | 0      |
| 12 | 2004/10/28<br>11:39 |          |                  | 0      |
| 13 | 2004/10/28<br>11:39 |          |                  | 0      |

|    | Type | Hits | Search Text   | DBs   |
|----|------|------|---|---|
| 14 | BRS  | 1    | ((((ion adj1 trap adj1 array\$2) or (((ion adj1 trap\$2) with quadrupole)) and ((end adj1 cap) with insulat\$5))) and (TOF or (time adj3 flight))) and (((ion adj1 trap\$2) with quadrupole)) and ((end adj1 cap) with insulat\$5)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 15 | BRS  | 9    | ((((ion adj1 trap adj1 array\$2) or (((ion adj1 trap\$2) with quadrupole)) and ((end adj1 cap) with insulat\$5))) and (TOF or (time adj3 flight))) and (ion adj1 trap adj1 array\$2)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 16 | BRS  | 1    | ((ion adj1 trap adj1 array\$2) or (((ion adj1 trap\$2) with quadrupole)) and ((end adj1 cap) with insulat\$5))) and (ion adj1 mobility)   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 17 | BRS  | 87   | ((ion adj1 trap\$2) with quadrupole)) and (ion adj1 mobility)   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 18 | BRS  | 0    | (((((ion adj1 trap\$2) with quadrupole)) and ((ion adj1 mobility) with (TOF or (time adj3 flight)))) and ((ion adj1 trap adj1 array\$2) or (((ion adj1 trap\$2) with quadrupole)) and ((end adj1 cap) with insulat\$5)))            | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 19 | BRS  | 0    | (((((ion adj1 trap\$2) with quadrupole)) and ((ion adj1 mobility) with (TOF or (time adj3 flight)))) and (ion adj1 trap adj1 array\$2)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 20 | BRS  | 23   | ((ion adj1 trap\$2) with quadrupole)) and ((ion adj1 mobility) with (TOF or (time adj3 flight)))  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 21 | BRS  | 0    | (((((ion adj1 trap\$2) with quadrupole)) and ((ion adj1 mobility) with (TOF or (time adj3 flight)))) and (drift adj1 region) and (accelerat\$5 near4 grid\$2)   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 22 | BRS  | 8    | (((((ion adj1 trap\$2) with quadrupole)) and ((ion adj1 mobility) with (TOF or (time adj3 flight)))) and (accelerat\$5 near4 grid\$2)   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |

|    | Time Stamp          | Comments | Error Definition | Errors |
|----|---------------------|----------|------------------|--------|
| 14 | 2004/10/28<br>11:39 |          |                  | 0      |
| 15 | 2004/10/28<br>11:39 |          |                  | 0      |
| 16 | 2004/10/28<br>11:42 |          |                  | 0      |
| 17 | 2004/10/28<br>11:43 |          |                  | 0      |
| 18 | 2004/10/28<br>11:44 |          |                  | 0      |
| 19 | 2004/10/28<br>11:44 |          |                  | 0      |
| 20 | 2004/10/28<br>11:51 |          |                  | 0      |
| 21 | 2004/10/28<br>11:53 |          |                  | 0      |
| 22 | 2004/10/28<br>11:53 |          |                  | 0      |

|    | Type | Hits | Search Text   | DBs   |
|----|------|------|---|---|
| 23 | BRS  | 7    | (((((ion adj1 trap\$2) with quadrupole)) and ((ion adj1 mobility) with (TOF or (time adj3 flight)))) and drift and (accelerat\$5 near4 grid\$2))  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 24 | BRS  | 7    | (((((ion adj1 trap\$2) with quadrupole)) and ((ion adj1 mobility) with (TOF or (time adj3 flight)))) and drift and (accelerat\$5 near4 grid\$2)) and (quadrupole near3 trap)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 25 | BRS  | 2    | 6762406.pn.   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 26 | BRS  | 0    | 6762406.pn. and ((EI or (electron adj1 impact)) near4 (ion adj1 source))  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 27 | BRS  | 0    | (((((ion adj1 trap\$2) with quadrupole)) and ((ion adj1 mobility) with (TOF or (time adj3 flight)))) and drift and (accelerat\$5 near4 grid\$2)) and (quadrupole near3 trap) and ((EI or (electron adj1 impact)) near4 (ion adj1 source)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 28 | BRS  | 0    | ((ion adj1 trap adj1 array\$2) or (((ion adj1 trap\$2) with quadrupole)) and ((end adj1 cap) with insulat\$5))) and ((EI or (electron adj1 impact)) near4 (ion adj1 source))  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 29 | BRS  | 11   | (((((ion adj1 trap\$2) with quadrupole)) and (ion adj1 mobility)) and ((EI or (electron adj1 impact)) near4 (ion adj1 source))  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 30 | BRS  | 2    | 20030213900.pn.   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 31 | BRS  | 1    | 20030213900.pn. and ((EI or (electron adj1 impact)) near4 (ion adj1 source))  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 32 | BRS  | 6    | ((ion adj1 trap\$2) with quadrupole)) and (radius adj3 mm) and (length adj3 mm) and ratio   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |
| 33 | BRS  | 1    | (((((ion adj1 trap\$2) with quadrupole)) and (radius adj3 mm) and (length adj3 mm) and ratio) and (ring near5 (end adj1 cap\$2))  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB |

|    | Time Stamp          | Comments | Error Definition | Errors |
|----|---------------------|----------|------------------|--------|
| 23 | 2004/10/28<br>11:55 |          |                  | 0      |
| 24 | 2004/10/28<br>11:56 |          |                  | 0      |
| 25 | 2004/10/28<br>12:01 |          |                  | 0      |
| 26 | 2004/10/28<br>12:02 |          |                  | 0      |
| 27 | 2004/10/28<br>12:02 |          |                  | 0      |
| 28 | 2004/10/28<br>12:02 |          |                  | 0      |
| 29 | 2004/10/28<br>12:04 |          |                  | 0      |
| 30 | 2004/10/28<br>12:04 |          |                  | 0      |
| 31 | 2004/10/28<br>12:09 |          |                  | 0      |
| 32 | 2004/10/28<br>12:15 |          |                  | 0      |
| 33 | 2004/10/28<br>12:16 |          |                  | 0      |